PW ENVIRONMENTAL

January 28, 2005

Ms. Diane Wahl
County of Ventura
Environmental Health Division,
LUFT Program
800 South Victoria Avenue
Ventura CA 93009-1730

Subject: Bauer and Collins Property
1140 South Wells Road, Saticoy
EHD Site #C01033
QUARTERLY MONITORING REPORT
(Quarter Ending December 31, 2004)

Dear Ms. Wahl:

PW Environmental prepared this Quarterly Monitoring Report for the property located at 1140 South Wells Road, Saticoy, on behalf Mr. John Bauer and Ms. Patti Collins, responsible parties. Quarterly monitoring services were provided in compliance with the County of Ventura Environmental Health Division, Leaking Underground Fuel Tank Program letters dated October 4, 2002, and March 30, 2004. PW conducted this quarterly monitoring event on December 22, 2004. The work included measuring depth to water, calculating groundwater elevations, purging, and sampling four of four site wells (MW1 through MW4). The samples plus a duplicate and trip blank were submitted for analysis to a State-certified laboratory. The following report presents the work performed and findings.

PW trusts this report addresses your current requirements. Please contact the undersigned if you have questions or comments regarding this report.

Respectfully submitted,

PW ENVIRONMENTAL

Ryan L. Smith
Senior Staff Geologist

Therese McCarthy-Watson
Project Scientist

Robert C. Orlando, RG #4555
Senior Geologist

REGISTERED GEOLOGIST
ROBERT C. ORLANDO
No 4555
STATE OF CALIFORNIA

cc: Mr. John Bauer, RP
Ms. Patti Collins, RP
Mr. Dan Ortiz (site owner) c/o Short Realty

230 DOVE COURT ▪ SANTA PAULA, CALIFORNIA 93060 ▪ LIC. 457640
(805) 656-4677 ▪ (805) 525-5563 ▪ (800) 231-4677 ▪ FAX (805) 525-2896
http://www.pwenvironmental.com • Email: info@pwenvironmental.com

QUARTERLY MONITORING REPORT
QUARTER ENDING DECEMBER 31, 2004

BAUER AND COLLINS PROPERTY
1140 SOUTH WELLS ROAD, SATICOY, CALIFORNIA
EHD SITE #C01033

1.0 WORK PERFORMED

On December 22, 2004, PW Environmental (PW) conducted monitoring and sampling of four of four site wells (MW1 through MW4). A duplicate groundwater sample was collected from well MW3R. Groundwater samples were submitted for analysis under Chain-of-Custody protocols to Columbia Analytical Services of Canoga Park.

2.0 CURRENT SITE ACTIVITIES

In a letter dated January 8, 2004, County of Ventura Environmental Health Division, Leaking Underground Fuel Tank Program (EHD) notified the responsible party (RP) that the site was to be evaluated for low-risk closure eligibility. In a subsequent letter dated March 30, 2004, EHD directed that corrective action be performed in the source area to remove the residual hydrocarbons in the soil to further protect groundwater and public supply wells located approximately 60 feet down and cross gradient from the site. Until completion of the corrective action, EHD directed that the existing quarterly monitoring program continue at the site. In response, PW prepared *Corrective Action Plan* (CAP), dated May 24, 2004, that was approved by EHD in their letter, dated June 21, 2004. The approved CAP for source-soil removal, with conditions, was initiated on August 26, 2004, with the abandonment of groundwater monitoring well MW3.

PW Environmental (PW) performed remedial excavation activities at the site between September 10, and December 9, 2004. On December 3, 2004, PW installed monitoring well MW3R to replace abandoned well MW3, for the subsequent quarterly monitoring event. Site description and background are presented in Appendix A.

3.0 FINDINGS

Well survey, hydrologic, and Global Positioning System location data obtained for the wells are presented in Table 1. Historical groundwater elevation and flow data are presented in Table 2. Laboratory analytical results for the groundwater samples collected for this event are summarized in Table 3. Historical laboratory analytical results for the site wells are presented along with the measured groundwater elevations in Table 4. Field methods, site background, and groundwater sampling protocol are presented in Appendix A. A data graph of historical groundwater elevations is in Appendix B. The Monitoring Well Field Data sheet and laboratory analytical results for the samples collected for this event are presented in Appendix C. A site

location map is presented in Figure 1. The groundwater gradient map is presented in Figure 2. A benzene isoconcentration map is presented in Figure 3. A discussion of the groundwater conditions observed during the fieldwork, the calculated groundwater gradient, and the laboratory analytical results for the groundwater samples is presented.

3.1 GROUNDWATER CONDITIONS

For this quarterly event, the measured depth to groundwater at the site ranged from 6.49 (MW1) to 8.42 (MW3R) feet below the top of the well casing. Groundwater elevations calculated for the wells were between 150.45 (MW3R) and 152.67 (MW1) feet above mean sea level. Historical groundwater elevations are shown in Graph 1 of Appendix B.

The groundwater flow direction and gradient were initially contoured using the computer program SURFER®, then modified as necessary based on interpretation of the data. Based on contouring of the groundwater elevations obtained from the site wells during this event, groundwater under the site generally flows to the south at a gradient of 0.071 (or 7.1 feet of vertical drop in 100 feet of horizontal distance). The estimated gradient is illustrated in Figure 2.

3.2 LABORATORY ANALYTICAL RESULTS

Submitted laboratory samples were analyzed as presented in paragraph 13 of Groundwater Sampling Protocols (Appendix A). The laboratory analytical results indicate that concentrations of total petroleum hydrocarbons as gasoline (TPH-G), TPH as diesel (TPH-D), benzene, toluene, ethylbenzene, total xylenes (BTEX), and tertiary butyl alcohol (tBA) exceeding the Method Detection Limits employed by the laboratory were reported in select samples collected from the site wells. Of these, the benzene concentration in wells MW2 and MW4, along with the tBA concentrations in well MW3R exceeded the State Maximum Contaminant Levels for Drinking Water.

Contaminant graphs for TPH-G and benzene are presented in Graphs 2 and 3 of Appendix B.

4.0 DISCUSSION

Comparison of the water level measurements for this event, with those measured during the previous event, indicate that the groundwater elevation under the site fell between 0.63 (MW1) and 0.80 (MW4) feet. The groundwater under the site generally flows to the south at a gradient of 0.071.

Comparison of the laboratory analytical results reported for samples collected for this event are presented.

- In well MW1, located **up gradient** from the former underground storage tank (UST), concentrations of toluene and total xylenes increased.
- In well MW2, located **cross gradient** from the former UST, concentrations of TPH-G and BTEX increased.
- In well MW3R, located **down gradient** from the former UST, concentrations of TPH-G, TPH-D, BTEX, and tBA increased compared to data collected for MW3.
- In well MW4, located **down gradient** from the former UST, concentrations of TPH-G and BTEX increased.

5.0 RECOMENDATIONS

- Following completion of the first quarter 2005 groundwater monitoring event, anticipated to be completed in early March 2005, PW recommends that the site be evaluated and considered for a low-risk soil closure;
- If TPH-G and tBA concentrations persist, hydrogen peroxide treatment, a site polishing method, of the site wells may be warranted prior to closure; and,
- Dissolved lead concentrations have been at or below method detection limits and background levels since January 2003. PW recommends termination of dissolved lead analysis.

6.0 LIMITATIONS

Project limitations are presented in Appendix D.

TABLE 1

WELL CONSTRUCTION, HYDROLOGIC, AND GPS DATA FOR DECEMBER 22, 2004
BAUER & COLLINS PROPERTY, SATICOY
EHD SITE #C01033

Well Number	WELL CONSTRUCTION DATA					HYDROLOGIC DATA		GPS DATA	
	Date Installed	Total Depth (ft btc)	Casing Diameter (inches)	Screened Interval (ft btc)	Top of Casing (ft amsl)	Groundwater Depth (ft btc)	Groundwater Elevation (ft amsl)	Latitude Degrees North	Longitude Degrees West
MW1	1/21/03	18	2	3 – 18	159.16	6.49	152.67	34.2842149	119.15084
MW2	1/21/03	20	2	5 – 20	158.96	6.92	152.04	34.2841796	119.15084
MW3R	1/21/03	18	2	3 – 18	158.87	8.42	150.45	34.2841541	119.15080
MW4	1/22/03	18	2	3 – 18	159.48	7.85	151.63	34.2841587	119.15071

Geocation performed GPS location services on February 2, 2003.

btc below top of casing
amsl above mean sea level

TABLE 2

HISTORICAL GROUNDWATER ELEVATION AND FLOW DATA
BAUER & COLLINS PROPERTY, SATICOY
EHD SITE #C01033

Date of Monitoring Event	Groundwater Elevations (ft asml)				Approximate Groundwater Flow Data	
	MW1	MW2	MW3R	MW4	Gradient	Direction
01/21/03	154.65	154.19	153.58	153.82	0.040	South
04/21/03	156.32	156.09	155.29	155.19	0.040	South
07/08/03	154.85	154.09	153.36	153.92	0.050	South
10/13/03	152.06	152.15	151.56	152.07	0.025	South
01/14/04	154.42	154.01	153.24	153.56	0.075	Southwest
04/01/04	155.18	154.94	153.95	153.28	0.052	Southeast
07/02/04	153.30	152.74	151.24	152.43	0.083	South
12/22/04	152.67	152.04	150.45	151.63	0.071	South
Change	**-0.63**	**-0.70**	**-0.79**	**-0.80**		
TOS	**156.16**	**153.96**	**155.87**	**156.48**		

The top-of-casing for MW1 surveyed to relative datum by Hoover and Associates.
Information modified to reflect YCE Civil Engineering and Land Surveying's revised site map dated 3/11/2003.

amsl	above mean sea level
TOS	Top of Screen
Change	Difference in groundwater elevation from last quarterly monitoring event

TABLE 3

SUMMARY OF GROUNDWATER ANALYTICAL RESULTS FOR DECEMBER 22, 2004
BAUER & COLLINS PROPERTY, SATICOY
EHD SITE #C01033

Sample ID	TPH-G	TPH-D	B	T	E	X	MtBE	tBA	DIPE	EtBE	tAME
MW1	<35.00	<410.00	<0.17	0.62	<0.16	0.99 J	<0.32	<11.00	<0.27	<0.29	<0.27
MW2	47.00 J	<410.00	**1.20**	5.20	0.77	7.00	<0.32	<11.00	<0.27	<0.29	<0.27
MW3R	730.00	470.00 J	0.25 J	0.38 J	0.26 J	0.73 J	<0.32	**50.00**	<0.27	<0.29	<0.27
MW4	110.00	<410.00	**8.30**	28.00	3.20	25.00	<0.32	<11.00	<0.27	<0.29	<0.27
DUP	na	na	0.26 J	0.53 J	0.31 J	0.98 J	<0.32	**53.00**	<0.27	<0.29	<0.27
TB	na	na	<0.17	<0.22	<0.16	<0.54	<0.32	<11.00	<0.27	<0.29	<0.27
MDL	**35.00**	**410.00**	**0.17**	**0.22**	**0.16**	**0.54**	**0.32**	**11.00**	**0.27**	**0.29**	**0.27**
MCL	**1000.00 a)**	**1000.00 a)**	**1.00**	**150.00**	**300.00**	**1750.00**	**13.00**	**12.00**	**nl**	**nl**	**nl**

* Reported in micrograms per liter (µg/L). Results at or above the MCLs are presented in **Bold**. Samples were analyzed by EPA Test Method 8015M, 8260B, and 7421.

B Benzene
T Toluene
E Ethylbenzene
X Total xylenes
MtBE Methyl tertiary-butyl ether
tAME tertiary-amyl methyl ether
DIPE Di-isopropyl ether
EtBE Ethyl tertiary-butyl ether
Diss. Lead Dissolved Lead
na not analyzed
nl MDLs are not listed for this constituent
TB Trip Blank

MDL Method Detection Limits employed by the laboratory. The MDLs may have been raised for sample containing elevated concentrations of contaminants.
MCL Maximum Containment Levels for water, California Regional Water Quality Control Board, September 12, 2003
a) No MCL listed for TPH-G. Values represent State Investigation levels.
b) No MCL listed for lead. Value represents State Action Level for tap water.
J Estimated concentration. The results is less than the Practical Quantitation Limit but greater than the MDL.

Complete analytical results and chain of custody documentation are included in Appendix C.

TABLE 4

SUMMARY OF HISTORICAL GROUNDWATER ANALYTICAL RESULTS
BAUER & COLLINS PROPERTY, SATICOY
EHD SITE #C01033

Sample ID	Sample Date	Ground-water Elevation	TPH-G	TPH-D	B	T	E	X	MtBE	tBA	DIPE	EtBE	tAME	EDB	EDC	Diss. Lead
MW1	01/21/03	154.59	<20.00	<280.00	<0.19	<0.17	<0.18	<0.40	<0.31	<3.30	<0.35	<0.28	<0.32	<0.17	<0.24	<0.07
	04/21/03	156.32	<19.00	<280.00	<0.19	<0.17	<0.18	<0.40	<0.31	<3.30	<0.35	<0.28	<0.32	<0.17	<0.24	<0.07
	07/08/03	154.85	30.00 J	<280.00	<0.19	<0.16	<0.18	2.70	<0.39	<4.50	<0.47	<0.38	<0.27	<0.19	<0.37	<0.07
	10/13/03	152.06	60.00	<280.00	2.70	9.70	1.30	9.40	<0.39	<4.50	<0.47	<0.38	<0.27	<0.19	<0.37	0.10 J
	01/14/04	154.42	52.00	<440.00	3.20	8.90	1.30	6.40	<0.39	<10.00	<0.47	<0.39	<0.45	<0.15	<0.37	<0.07
	04/01/04	155.18	<19.00	<440.00	<0.16	<0.14	<0.20	<0.36	<0.39	<10.00	<0.47	<0.39	<0.45	<0.15	<0.37	0.08 J
	07/02/04	153.30	<19.00	<440.00	<0.16	0.17 J	<0.20	<0.36	<0.39	<10.00	<0.47	<0.39	<0.45	<0.15	<0.37	0.10 J
	12/22/04	152.67	<35.00	<410.00	<0.17	0.62	<0.16	0.99 J	<0.32	<11.00	<0.27	<0.29	<0.27	na	na	na
	Change From Last Quarter		**nc**	**nc**	**nc**	**+**	**nc**	**+**	**nc**	**nc**	**nc**	**nc**	**nc**	**nc**	**nc**	**nc**
MW2	01/21/03	154.13	30.00 J	<280.00	<0.19	<0.17	<0.18	<0.40	<0.31	<3.30	<0.35	<0.28	<0.32	<0.17	<0.24	0.70
	04/21/03	156.09	<19.00	<280.00	<0.19	<0.17	<0.18	<0.40	<0.31	<3.30	<0.35	<0.28	<0.32	<0.17	<0.24	<0.07
	07/08/03	154.09	40.00 J	<280.00	<0.19	<0.16	<0.18	4.20	<0.39	<4.50	<0.47	<0.38	<0.27	<0.19	<0.37	<0.07
	10/13/03	152.15	30.00 J	<280.00	0.55	2.30	0.28 J	2.60	<0.39	<4.50	<0.47	<0.38	<0.27	<0.19	<0.37	0.10 J
	01/14/04	154.01	43.00 J	<440.00	1.80	6.00	1.10	5.10	<0.39	<10.00	<0.47	<0.39	<0.45	<0.15	<0.37	<0.07
	04/01/04	154.94	<19.00	<440.00	<0.16	<0.14	<0.20	<0.36	<0.39	<10.00	<0.47	<0.39	<0.45	<0.15	<0.37	<0.07
	07/02/04	152.74	<19.00	<440.00	<0.16	<0.14	<0.20	<0.36	<0.39	<10.00	<0.47	<0.39	<0.45	<0.15	<0.37	0.07 J
	12/22/04	152.04	47.00 J	<410.00	1.20	5.20	0.77	7.00	<0.32	<11.00	<0.27	<0.29	<0.27	na	na	na
	Change From Last Quarter		**+**	**nc**	**+**	**+**	**+**	**+**	**nc**	**nc**	**nc**	**nc**	**nc**	**nc**	**nc**	**nc**
MDL			**19.00**	**280.00**	**0.19**	**0.16**	**0.18**	**0.40**	**0.39**	**4.50**	**0.47**	**0.38**	**0.27**	**0.19**	**0.37**	**0.07**
MCL			**1000.00[a]**	**1000.00[a]**	**1.00**	**150.00**	**300.00**	**1750.00**	**13.00**	**12.00**	**nl**	**nl**	**nl**	**0.02**	**0.50**	**15.00**

TABLE 4 (continued)

SUMMARY OF HISTORICAL GROUNDWATER ANALYTICAL RESULTS
BAUER & COLLINS PROPERTY, SATICOY
EHD SITE #C01033

Sample ID	Sample Date	Ground- water Elevation	TPH-G	TPH-D	B	T	E	X	MtBE	tBA	DIPE	EtBE	tAME	EDB	EDC	Diss. Lead
MW3	01/21/03	153.52	<20.00	<280.00	<0.19	<0.17	<0.18	<0.40	<0.31	<3.30	<0.35	<0.28	<0.32	<0.17	5.30	<0.07
	04/21/03	155.29	<19.00	<280.00	<0.19	<0.17	<0.18	<0.40	4.80	<0.17	<0.31	<3.30	<0.32	<0.28	<0.35	<0.07
	07/08/03	153.36	25.00 J	<280.00	<0.19	<0.16	<0.18	0.76 J	<0.37	<0.19	<0.39	<4.50	<0.27	<0.38	<0.47	<0.07
	10/13/03	151.56	26.00 J	<280.00	1.10	0.16	0.24 J	2.00	<0.39	<4.50	<0.47	<0.38	<0.27	<0.19	3.60	0.10 J
	01/14/04	153.24	38.00 J	<440.00	1.40	4.60	0.82	4.30	<0.39	<10.00	<0.47	<0.39	<0.45	<0.15	3.60	<0.07
	04/01/04	153.95	22.00 J	<440.00	<0.16	<0.14	<0.20	<0.36	<0.39	<10.00	<0.47	<0.39	<0.45	<0.15	2.20	<0.07
	07/02/04	151.24	<19.00	<440.00	<0.16	<0.14	<0.20	<0.36	<0.39	<10.00	<0.47	<0.39	<0.45	<0.15	4.20	<0.07
MW3R	Well MW3 Abandoned on August 26, 2004															
	12/22/04	150.45	730.00	470.00 J	0.25 J	0.38 J	0.26 J	0.73 J	<0.32	50.00	<0.27	<0.29	<0.27	na	na	na
	Change From Last Quarter		+	+	+	+	+	+	**nc**	+	**nc**	**nc**	**nc**	**nc**	**nc**	**nc**
MW4	01/21/03	153.76	<20.00	<280.00	<0.19	<0.17	<0.18	<0.40	<0.31	<3.30	<0.35	<0.28	<0.32	<0.17	<0.24	<0.07
	04/21/03	155.19	<19.00	<280.00	<0.19	<0.17	<0.18	<0.40	<0.31	<3.30	<0.35	<0.28	<0.32	<0.17	<0.24	<0.07
	07/08/03	153.92	37.00 J	<280.00	<0.19	<0.16	<0.18	3.60	<0.39	<4.50	<0.47	<0.38	<0.27	<0.19	<0.37	<0.07
	10/13/03	152.07	48.00 J	<280.00	0.97	4.10	0.60	4.90	<0.39	<4.50	<0.47	<0.38	<0.27	<0.19	<0.37	0.10 J
	01/14/04	153.56	75.00	<440.00	3.70	13.00	2.30	11.00	<0.39	<10.00	<0.47	<0.39	<0.45	<0.15	<0.37	0.20 J
	04/01/04	153.28	<19.00	<440.00	<0.16	<0.14	<0.20	<0.36	<0.39	<10.00	<0.47	<0.39	<0.45	<0.15	<0.37	0.10 J
	07/02/04	152.43	<19.00	<440.00	<0.16	0.48 J	<0.20	<0.36	<0.39	<10.00	<0.47	<0.39	<0.45	<0.15	<0.37	<0.07
	12/22/04	151.53	110.00	<410.00	8.30	28.00	3.20	25.00	<0.32	<11.00	<0.27	<0.29	<0.27	na	na	na
	Change From Last Quarter		+	**nc**	+	+	+	+	**nc**	**nc**	**nc**	**nc**	**nc**	**nc**	**nc**	**nc**
MDL			**19.00**	**280.00**	**0.19**	**0.16**	**0.18**	**0.40**	**0.39**	**4.50**	**0.47**	**0.38**	**0.27**	**0.19**	**0.37**	**0.07**
MCL			**1000.00** [a]	**1000.00** [a]	**1.00**	**150.00**	**300.00**	**1750.00**	**13.00**	**12.00**	**nl**	**nl**	**nl**	**0.02**	**0.50**	**15.00** [b]

* Reported in micrograms per liter (µg/L). Results at or above the MCLs are presented in **Bold**. Samples were analyzed by EPA Test Method 8015M, 8260B, and 7421.

MDL Method Detection Limits employed by the laboratory. The MDLs may have been raised for sample containing elevated concentrations of contaminants.

MCL Maximum Containment Levels for water, California Regional Water Quality Control Board, September 12, 2003

a) No MCL listed for TPH-G or TPH-D. Values represent State Investigation levels.

b) No MCL listed for lead. Value represents State Action Level for tap water.

J Estimated concentration. The results is less than the Practical Quantitation Limit but greater than the MDL.

TPH-G Total petroleum hydrocarbons as gasoline – quantified against a gasoline standard

B Benzene

T Toluene

E Ethylbenzene

X Total xylenes

EDC 1,2-Dichloroethane

EDB Ethylene Dibromide

MtBE Methyl tertiary-butyl ether

tBA tertiary-butyl alcohol

tAME tertiary-amyl methyl ether

DIPE Di-isopropyl ether

EtBE Ethyl tertiary-butyl ether

Diss. Lead Dissolved lead

nd not detected at or above the MDLs used

nl MDLs are not listed for this constituent

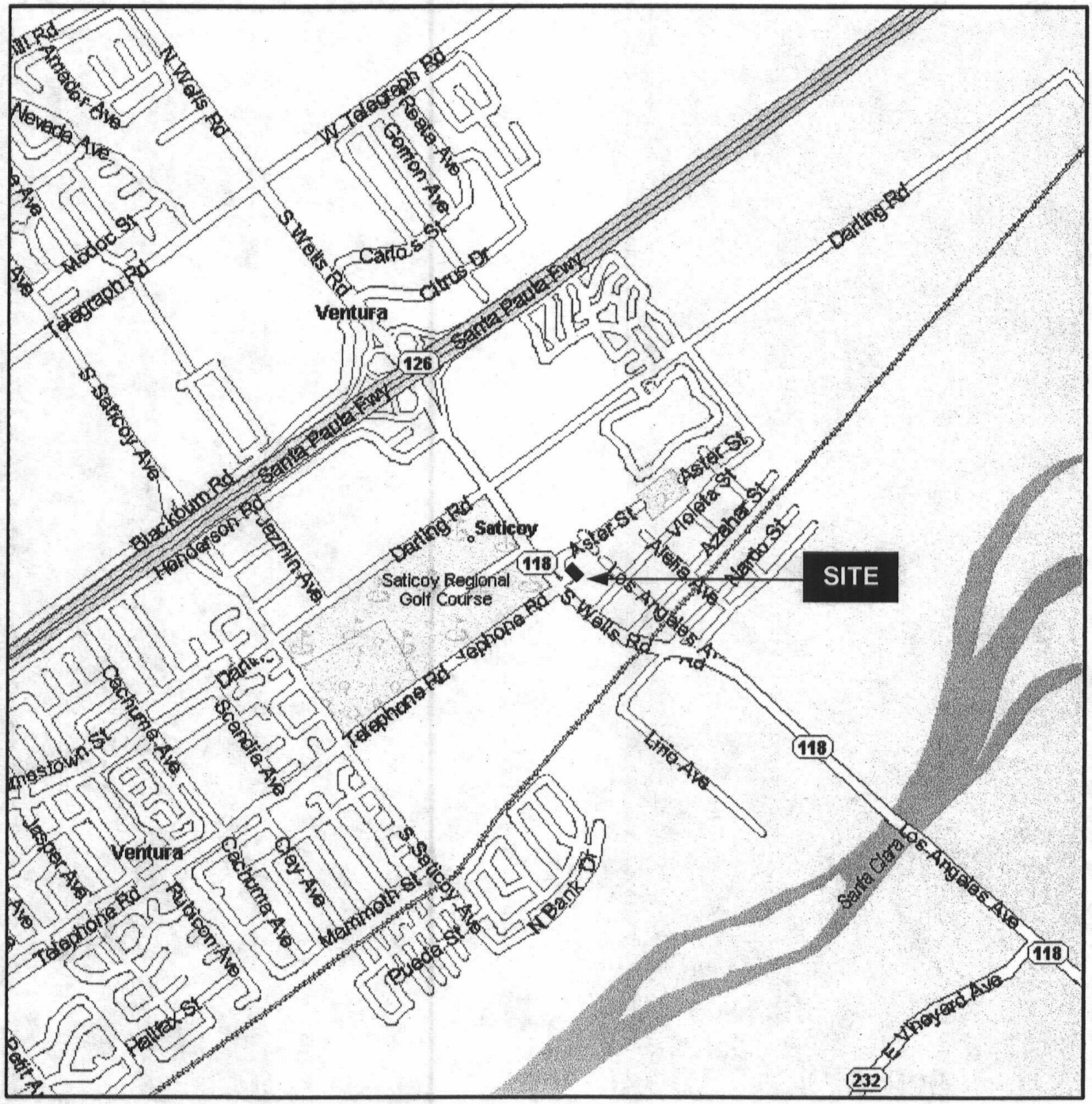
na not analyzed

nc not calculated due to insufficient data

\+ Contaminant concentration increased from last quarterly monitoring event

\- Contaminant concentration decreased from last quarterly monitoring event

Complete analytical results and chain of custody documentation are included in Appendix C.



SCALE: 1" = 2300'

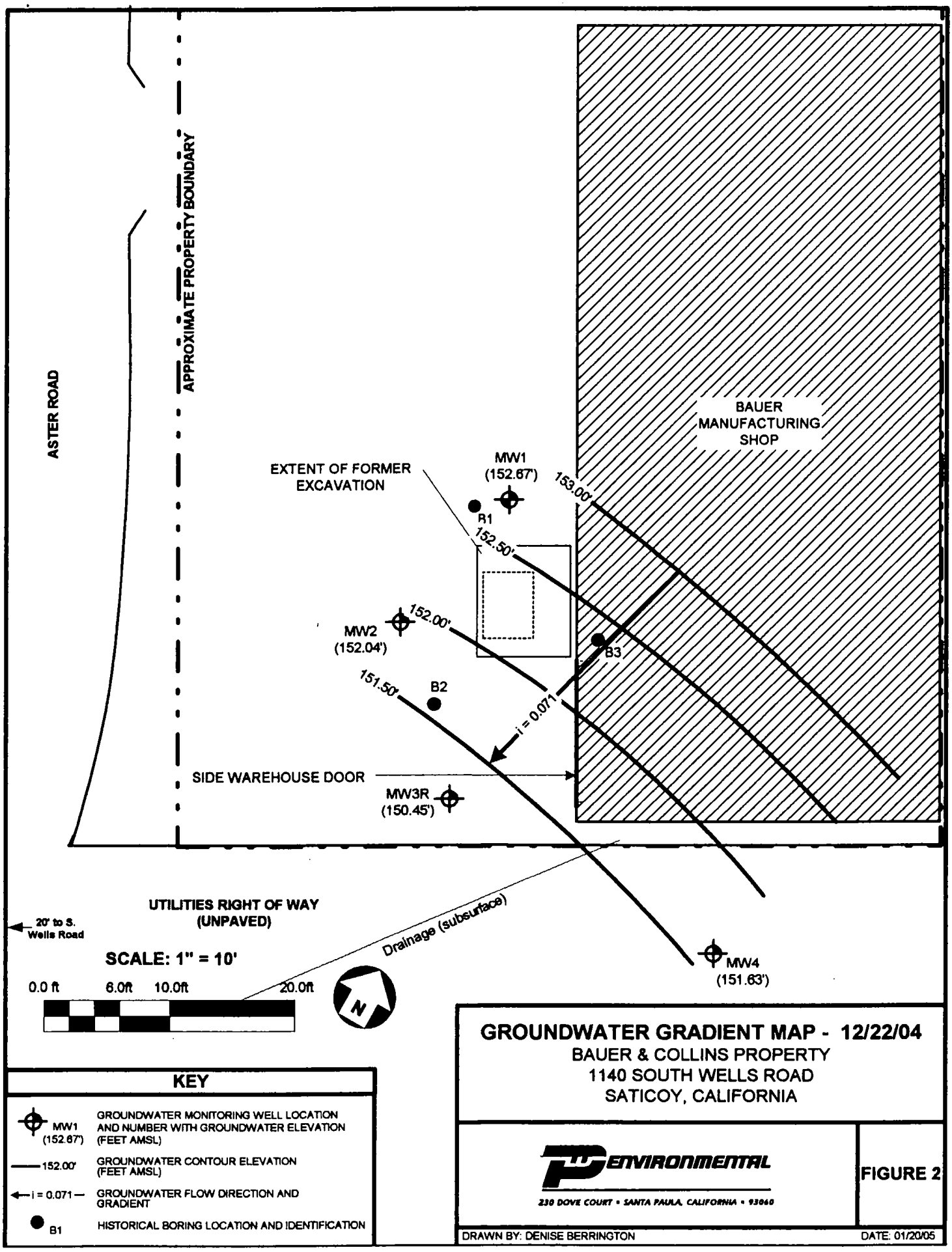
0ft. 1380 2300 4600 ft

N

SITE LOCATION MAP
BAUER & COLLINS PROPERTY
1140 SOUTH WELLS ROAD
SATICOY, CALIFORNIA

PW ENVIRONMENTAL
230 DOVE COURT • SANTA PAULA, CALIFORNIA • 93060

FIGURE 1



KEY

MW1 (152.67')	GROUNDWATER MONITORING WELL LOCATION AND NUMBER WITH GROUNDWATER ELEVATION (FEET AMSL)
152.00'	GROUNDWATER CONTOUR ELEVATION (FEET AMSL)
i = 0.071	GROUNDWATER FLOW DIRECTION AND GRADIENT
B1	HISTORICAL BORING LOCATION AND IDENTIFICATION

GROUNDWATER GRADIENT MAP - 12/22/04

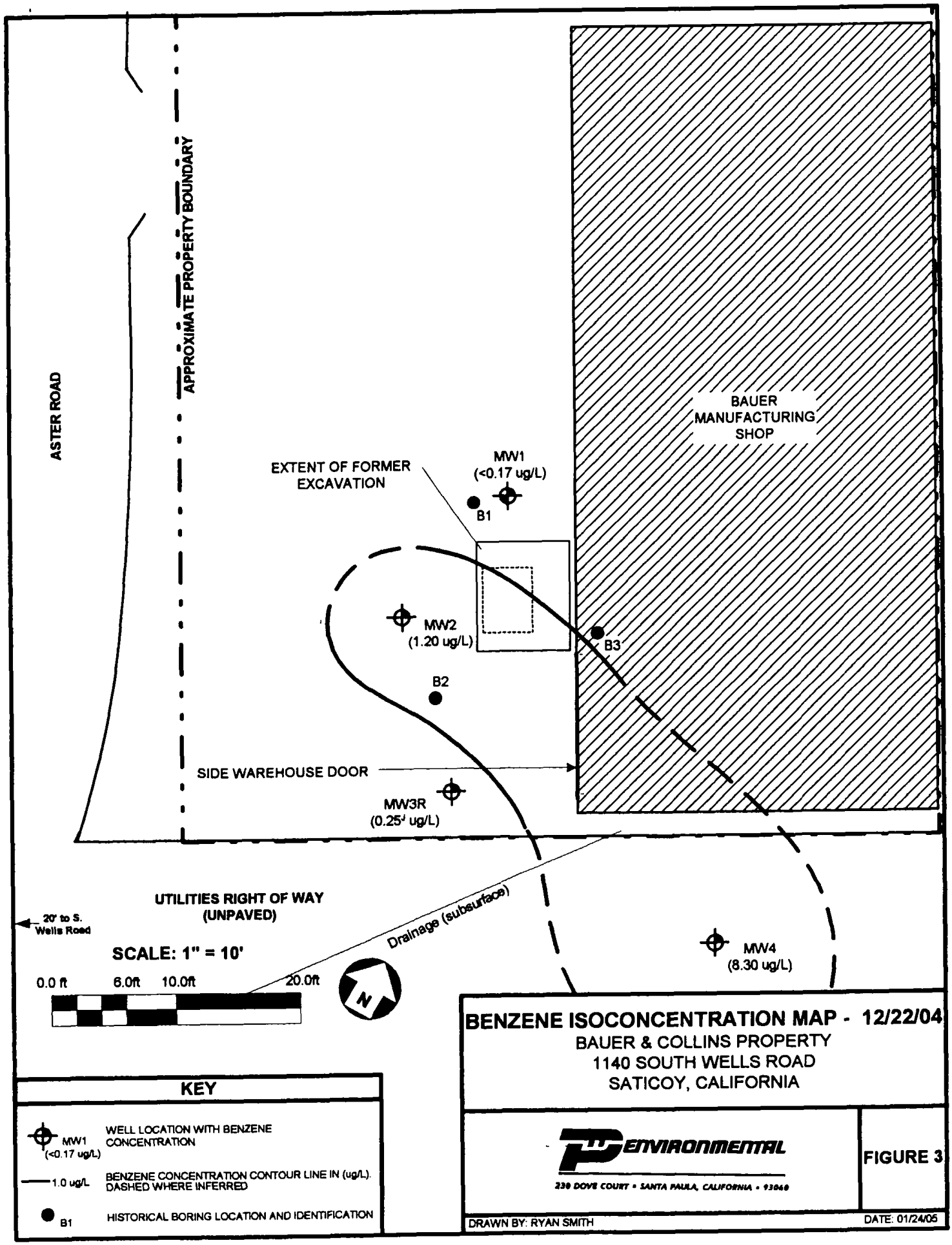
BAUER & COLLINS PROPERTY
1140 SOUTH WELLS ROAD
SATICOY, CALIFORNIA

PW ENVIRONMENTAL
230 DOVE COURT • SANTA PAULA, CALIFORNIA • 93060

FIGURE 2

DRAWN BY: DENISE BERRINGTON

DATE: 01/20/05



BENZENE ISOCONCENTRATION MAP - 12/22/04

BAUER & COLLINS PROPERTY
1140 SOUTH WELLS ROAD
SATICOY, CALIFORNIA

PENVIRONMENTAL
230 DOVE COURT • SANTA PAULA, CALIFORNIA • 93060

FIGURE 3

DRAWN BY: RYAN SMITH

DATE: 01/24/05

APPENDIX A

SITE DESCRIPTION, BACKGROUND, AND GROUNDWATER SAMPLING PROTOCOL

SITE DESCRIPTION

The Bauer and Collins site is located at 1140 South Wells Road, east of the intersection of Aster Road and South Wells Road in Saticoy (Figure 1). The rectangular site is located in an area of mixed residential/commercial use and is bound by: residences to the north and east; an unpaved easement road and storm drainage channel to the south; and Aster Road to the west. The eastern two-thirds of the property is occupied by a single-story building that formerly operated as a commercial/retail awning construction and repair business. The western third of the property contains a paved area used for parking (Figure 2). The site is generally flat with a gentle surface gradient to the southwest.

SITE BACKGROUND

On October 11, 2001, PW Environmental (PW) removed one 550-gallon gasoline underground storage tank (UST; located adjacent to the west side of the building, near the southernmost building entrance) and associated plumbing from the site. During excavation activities, strong hydrocarbon odors and staining were observed in soil below and adjacent to the base of the UST. Laboratory analytical results for soil samples collected from the UST excavation indicated the presence of elevated concentrations of total petroleum hydrocarbons as gasoline (TPH-G) up to 1,800 milligrams per Kilogram (mg/kg) at 5 feet below ground surface (bgs) and total lead ranging from 16 to 20 mg/kg.

Based on site information and observed site conditions, the County of Ventura Environmental Health Division, Leaking Underground Fuel Tank Program (EHD) issued a letter dated January 30, 2002, requiring a preliminary site assessment be conducted to determine the extent of hydrocarbon contamination in the vicinity of the former UST. In response, PW prepared a *Soil and Groundwater Assessment Workplan* dated February 12, 2002. EHD approved this workplan in a letter dated March 8, 2002.

On May 1, 2002, three Geoprobe® soil borings (B1, B2 and B3) were advanced. PW was on site to collect and document soil and groundwater samples from each of the borings. At 5 feet bgs in the boring adjacent to the UST excavation, TPH-G was detected at 540 mg/kg and total lead ranged from non detect to 17 mg/kg. The results of this phase of investigation were presented in PW's *Soil and Groundwater Assessment Report*, dated June 27, 2002.

Based on the information presented in the June 27, 2002 report, EHD issued a letter, dated July 26, 2002, requiring the submittal of a workplan to verify the contamination identified at the site during the initial investigation, and preparation and submittal of a site-specific, Site Conceptual Model (SCM). PW submitted an *Additional Soil and Groundwater Assessment Workplan*, dated August 8, 2002. The workplan was conditionally approved by EHD in a letter dated October 4, 2002.

On January 21, 2003, four hollow stem auger soil borings were advanced in the vicinity of the former UST. The borings were completed as 2-inch diameter groundwater monitoring wells (MW1, MW2, MW3, and MW4). Laboratory analytical results reported for the soil samples

collected during well installation activities indicate that concentrations of TPH-G, ethylbenzene, and total xylenes exceeding minimum detection limits are present in site soil. Laboratory analytical results for the groundwater samples indicate the presence of dissolved lead, 1,2-dichloroethane (EDC), and TPH-G in the groundwater. The contaminant concentrations reported for the samples did not exceed State water standards action levels, or maximum contaminant levels, with the exception of EDC detected in the well down gradient of the former UST at a concentration of 5.3 micrograms per liter (µg/L). Based on the information generated during the additional soil and groundwater assessment and SCM, it appeared that minor soil and groundwater contamination existed beneath the site. Because the soil and groundwater contaminant plume had not been fully assessed in the lateral and vertical dimensions and active irrigation wells are located down gradient of the site, PW recommended drilling Geoprobe borings to further delineate the lateral extent of soil contamination, conduct site remediation by source removal, and continue quarterly groundwater monitoring. The work performed and findings were presented in PW's *Additional Soil and Groundwater Assessment Report*, dated March 10, 2003, and *Site Conceptual Model*, dated April 24, 2003. In response, EHD issued letters dated March 25 and June 20, 2003, accepting the results of the soil and groundwater assessment and SCM conducted, and required continued quarterly monitoring for the site. The letters also stated that data collected from consecutive quarterly monitoring events would support the consideration for low-risk closure.

Based on four quarters of groundwater monitoring data, EHD issued a letter dated January 8, 2004, notifying the RP that the site was to be evaluated for low-risk closure eligibility. The letter further stated that until concurrence from the Regional Water Quality Control Board is received, the quarterly groundwater monitoring program is to continue at the site. In a subsequent letter dated March 30, 2004, EHD directed that corrective action be performed in the source area to remove the residual hydrocarbon mass in the soil to be further protective of groundwater and of the nearby public supply wells located down-gradient of the source area. Until completion of the corrective action, EHD directed that the existing quarterly monitoring program continue at the site. In response, PW prepared *Corrective Action Plan* (CAP), dated May 24, 2004. The proposed workscope consist of: 1) conducting a limited hand auger assessment in areas adjacent to MW3 and in the former UST excavation pit to evaluate the required extent of the excavations to remove source soil; 2) completion of the remedial excavation using slot-cut method pending results from laboratory analytical results from the hand auger assessment; and, 3) collection of verification soil samples and submittal to a State-certified analytical laboratory for testing.

In a letter dated June 21, 2004, EHD approved the proposed workscope with these conditions: 1) eliminate hand auger borings and associated soil sampling; 2) extend excavation depths to nine feet below ground surface; 3) abandon well MW3 and excavate impacted soil surrounding the well; 4) following excavation activities, replace monitoring well MW3 in the immediate area for future groundwater monitoring; 5) modification to the dewatering plan to include direct dewatering if appropriate; 6) modified soil sampling plan for excavation areas; and, 7) perform two additional quarters of groundwater monitoring and sampling following completion of excavation activities. On August 26, 2004, PW abandoned groundwater monitoring well MW3. On September 10, 2004, PW initiated excavation activities in the vicinity of former monitoring well MW3. Based on field observations, additional soil removal was warranted. PW provided

the preliminary findings to EHD in *Remedial Excavation Preliminary Findings* report, dated September 23, 2004, and proposed extending the excavation. EHD approved the modified workscope except for extending the excavation to the east as proposed. From October 7 through 26, 2004, PW implemented the modified workscope and provided EHD with preliminary findings in a correspondence dated October 29, 2004. Based on the findings, PW recommended that residual soil, with elevated TPH-G concentrations (2,200 mg/kg) be removed. EHD approved additional soil removal in their correspondence dated November 3, 2004. PW initiated the modified workscope on November 16, 2004. Laboratory analytical results indicated TPH-G concentrations up to 1,200 mg/kg from the southern and eastern walls of the excavation at 6 feet bgs. Preliminary findings of the fieldwork were submitted to EHD in a facsimile on November 24, 2004, and discussed during a telephone conversation on November 29, 2004. PW prepared *Additional Remedial Excavation Work* letter report, dated November 30, 2004, proposing to excavate additional soil. In a facsimile and letter dated December 1 and 3, 2004, respectively, EHD approved the modified workscope.

On December 3, 2004, following completion of excavation activities outside the structure, PW proceeded with the installation of one groundwater monitoring well in the location of former well MW3 (MW3R). During the period of December 6 through 9, 2004, PW proceeded to complete the modified workscope approved by EHD. Confirmation soil samples collected on December 6, 2004, indicated non-detectable or concentrations of TPH-G below EHD cleanup levels established for the site (300 mg/kg). PW provided the preliminary findings to EHD in a facsimile dated December 7, 2004, indicating that the extent of the excavation had been completed. Between December 7 and 9, 2004, PW completed backfill activities and resurfaced the inside the structure with concrete. PW's findings were presented in the *Remedial Excavation Report*, dated January 25, 2005.

GROUNDWATER SAMPLING PROTOCOL

Quarterly monitoring activity at the Bauer and Collins Property includes monitoring and sampling four site wells (MW1 through MW4). The following procedure details the routine purging and sampling of groundwater monitoring wells. These activities are based on the *California Water Well Standards*, Local Oversight Agency (LOP) regulations and directives, and experience.

1. All pump/bailer components are steam-cleaned, or washed in ALCONOX® cleaner, or equivalent, before and between development and purging of separate wells.

2. Appropriate purge volumes are calculated through the following steps:

    a. Measure depth to groundwater (static groundwater level) using a clean, electronic water-level indicator, interface probe, or equivalent, to the marked datum point on the top of the well casing, recorded to 0.01-foot.

    b. **Measure all site-related wells prior to purging** any of the site wells. If groundwater conditions are known, measure wells from the least to the most impacted. **If product is evident, DO NOT PURGE OR SAMPLE THE WELL.**

    c. If liquid-phase hydrocarbon (free-floating product) is suspected or known, use a product/water interface probe for measurement.

    d. After measuring the depth to water, lower the electronic water-level meter, or a clean tape and plumb bob, to measure and confirm the well depth and sediment that may have settled in the well, if necessary.

    e. Calculate one casing volume using total water depth in well for purging ($\pi\ r^2\ h$ x 7.4805 gallon/ft^3 - with values in feet, where **r** is the radius of the well and **h** is the net feet of water in the well); for initial well development, include annular (well volume) space for volume calculation:

    $$[\{(\pi\ b^2\ h - \pi\ r^2\ h) \times \rho\} + \pi\ r^2\ h] \times 7.4805 \text{ gallon/ft}^3,$$

    where **b** is the borehole radius, and ρ is the assumed porosity of the filter pack (~35%).

3. Prior to sampling, three well volumes (the usual minimum) are purged from each well to ensure that water sampled is representative of the groundwater from the formation. If the well does not "clean up" (NTU acceptable value) to a satisfactory level of 5% or less of suspended material (by Imoff Cone, or NTU value), a surge block should be used to assist with purging. If the well has not be sampled or developed for over one year, the well should be surged and re-developed, as described in paragraph 2e.

4. Measurements of pH, temperature, (turbidity in NTUs, as necessary) and conductivity/hardness must be recorded at frequent intervals during the purge; when these

parameters stabilize, purging should be complete. Measure values with a Horiba® U10, standard Hydac® CTpH Tester, or equivalent meter.

5. If a well is pumped dry, a representative sample can be colleted: 1) once the water level recovers to 80 percent of the initial water column measured in the well, or 2) after 2 hours, whichever occurs first. Surging the well may be necessary to stimulate flow in fine-grained soils.

6. Development/purge water is stored in **labeled** D.O.T. 55-gallon drums, or other appropriate container, and retained on site until the proper disposal method is approved. Non-detect purged waters may remain on site to evaporate, used for landscape irrigation, dust control, or other uses as approved by LOP.

7. Use a pre-cleaned disposable bailer, dedicated bailer, or a cleaned, re-usable Teflon® bailer, for sampling. With the depth to water measured, the bailer is lowered slowly into the well so that only one-half of the bailer enters the groundwater. This allows for inspection/ observation of the groundwater surface upon retrieval.

8. Groundwater samples are immediately transferred from the bailer, through a bottom-emptying valve, into 40 ml VOA sampling bottles. At least three VOA bottles are filled per well, with preservatives, as directed or required, and sealed with Teflon-septa cap. VOAs should be filled until the water develops a positive meniscus. Fill VOAs first, then the remaining plastic or amber bottles (for lead, diesel analyses).

9. A blind **duplicate** sample should be collected per every 10 samples, or as directed by the LOP; for 2 to 10 samples, collect one duplicate sample. A laboratory-supplied **trip blank** must accompany every sample container. VOAs must be immediately placed in a cooler chilled to approximately 4°C, for transport to the state-certified analytical laboratory. A protected travel thermometer may also be placed in the chilled cooler to verify temperature. Samples are usually delivered to the state-certified laboratory on the same day as collected or within 24-hours of sampling.

10. A Chain-of-Custody (COC) form that documents the time, date, analytical methods, and responsible person during each step of the transportation process accompanies samples. The COC is completed in the field.

11. Groundwater-sample containers are clearly labeled to show: a unique project identifier; well number; sample sequence (if applicable); time and date sampled; added preservative; analytical methods (if space allows); and sampler's initials. An indelible non-water soluble marking pen is used to label all containers.

12. Should problems develop regarding this protocol, field operations, or sampling conditions, the Project Manager is immediately notified.

13. Specifically, the groundwater samples collected from the site wells are analyzed for:

    a. Total petroleum hydrocarbons as gasoline (TPH-G) and as diesel (TPH-D) using EPA Method 8015M

    b. Benzene, toluene, ethylbenzene, total xylenes (BTEX), methyl tertiary-butyl ether (MtBE), tertiary-butyl alcohol (tBA), tertiary-amyl methyl ether (tAME), di-isopropyl ether (DIPE), and ethyl tertiary-butyl ether (EtBE) by EPA Method 8260B.

    c. Dissolved lead by EPA Method 6020.

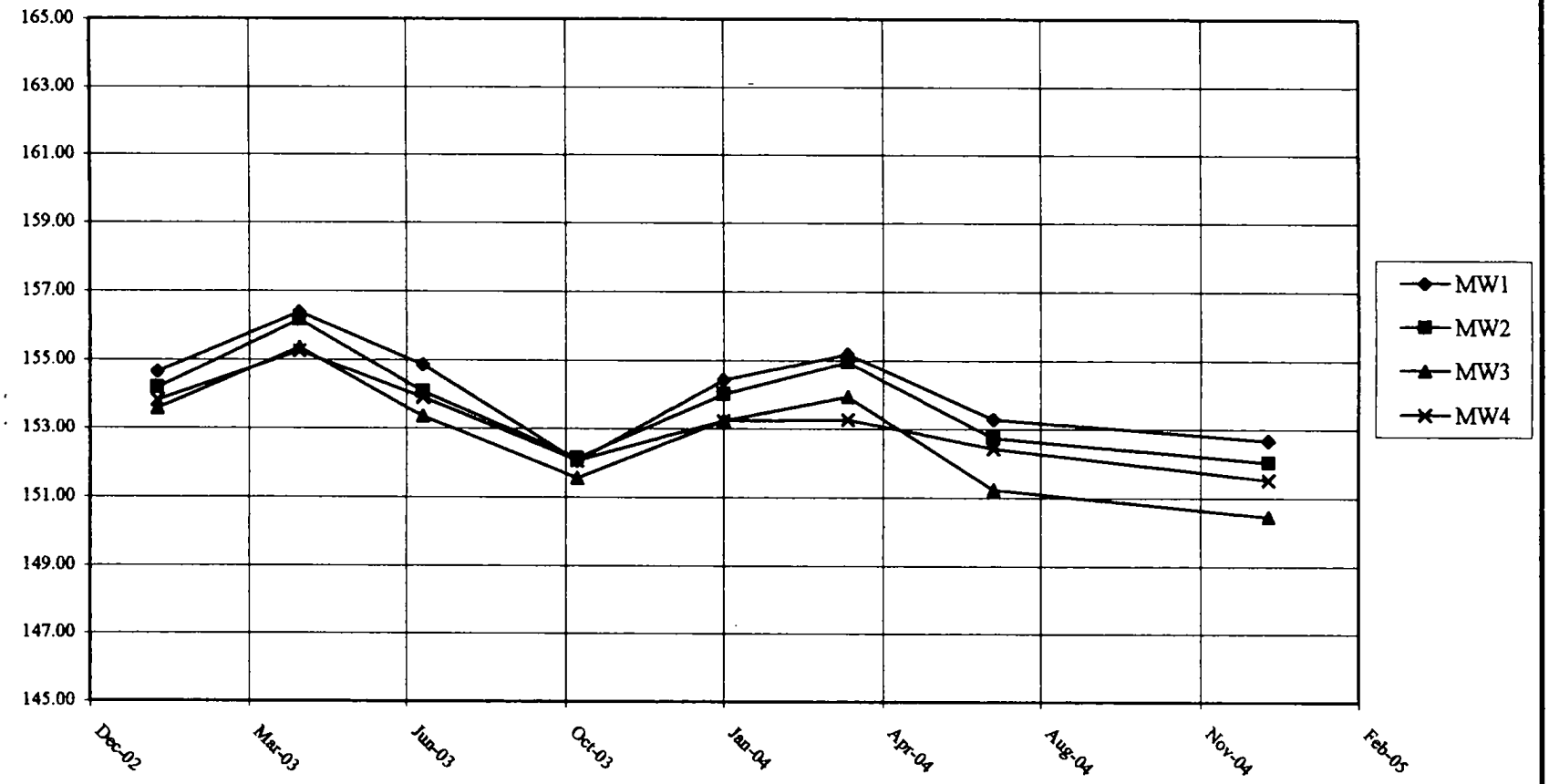
    d. The duplicate groundwater sample and trip blank was submitted and analyzed for BTEX, MtBE, tBA, tAME, DIPE and EtBE by EPA Method 8260B.

APPENDIX B

DATA GRAPHS

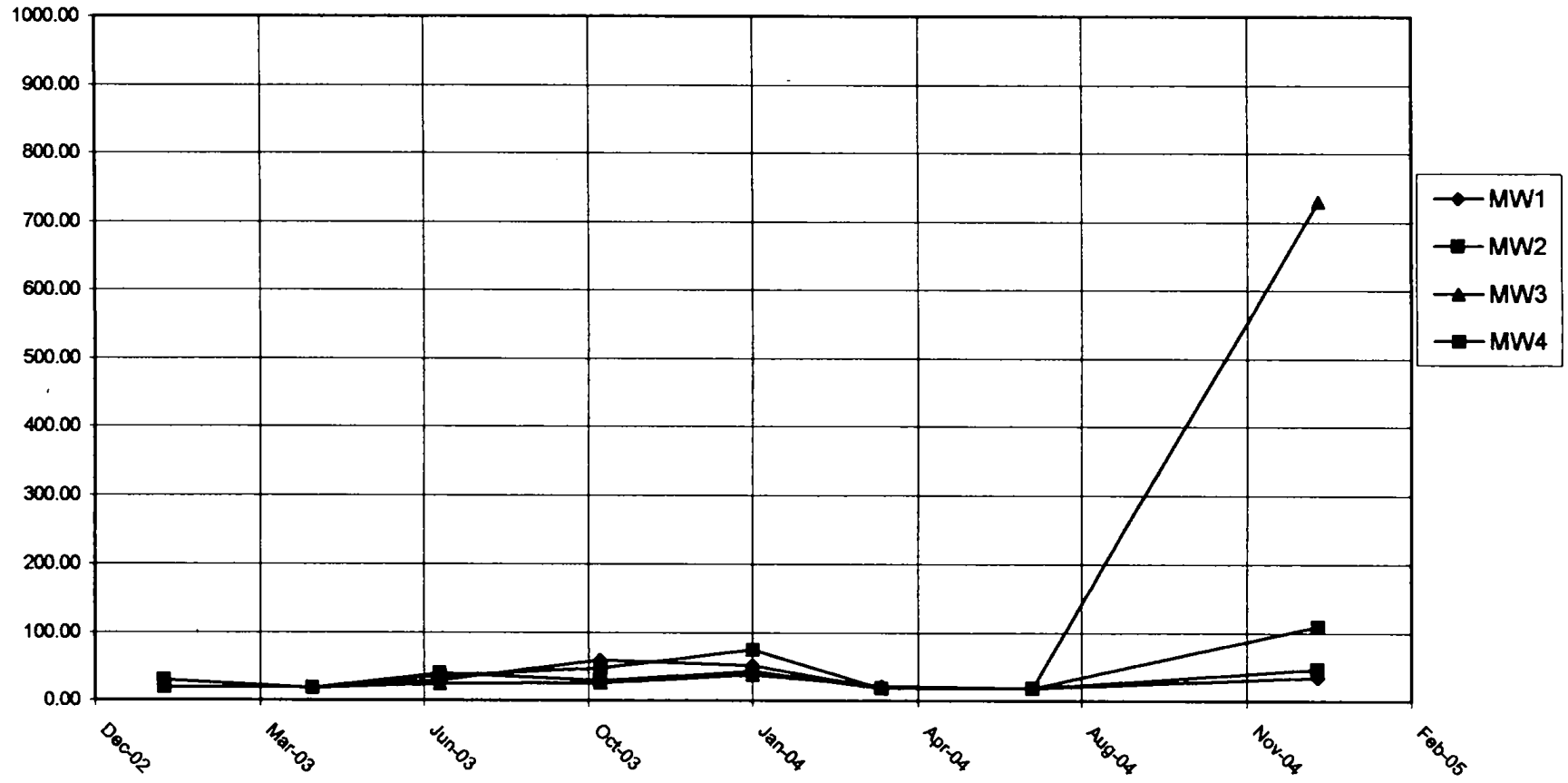
GRAPH 1

HISTORICAL GROUNDWATER ELEVATIONS; WELLS MW1 - MW4
BAUER & COLLINS PROPERTY, SATICOY
EHD SITE #C01033



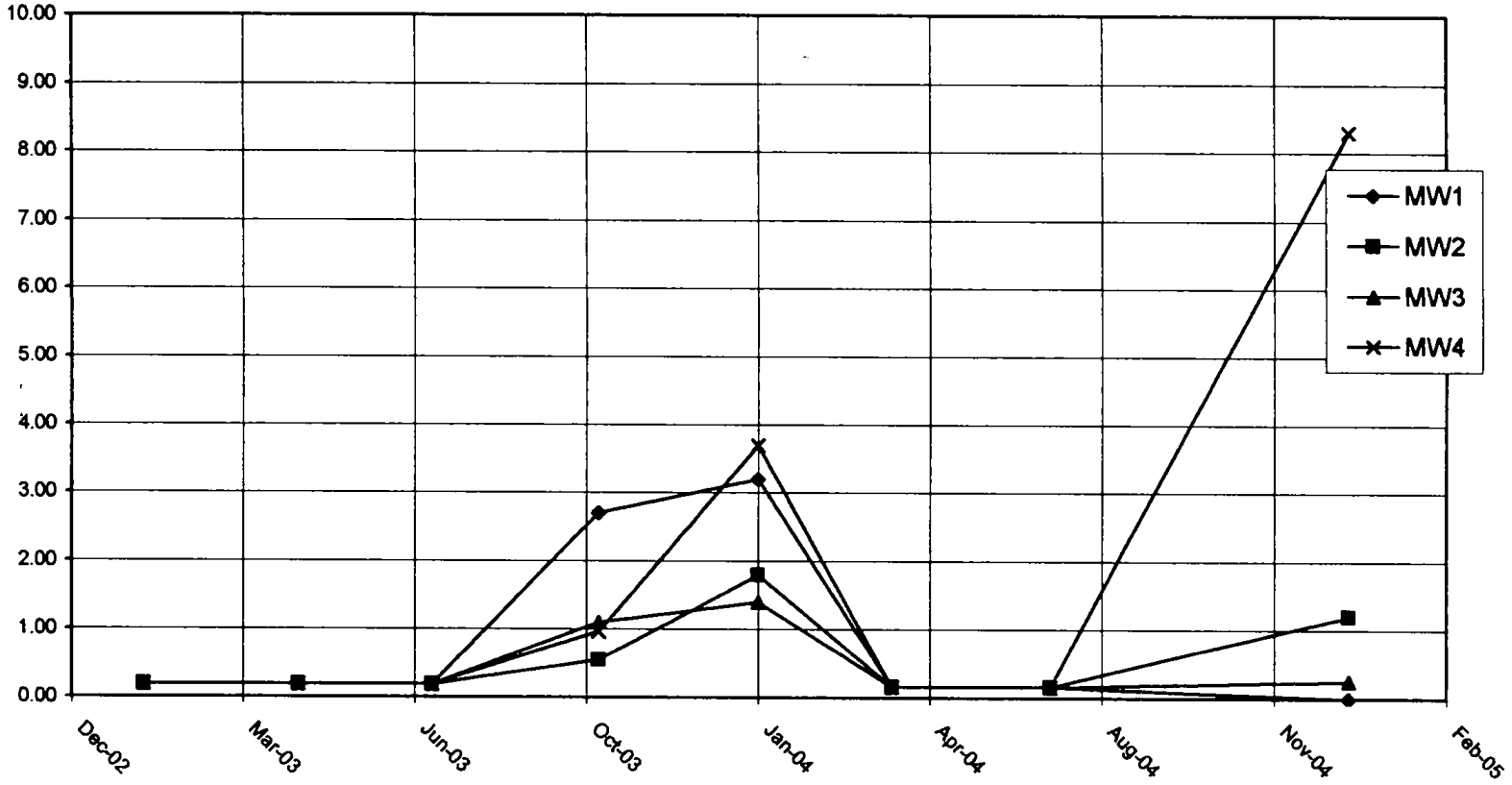
GRAPH 2

TPH-G CONCENTRATION CURVE; WELLS MW1-MW4
BAUER & COLLINS PROPERTY, SATICOY
EHD SITE #C01033



GRAPH 3

BENZENE CONCENTRATION CURVE; WELLS MW1-MW4
BAUER & COLLINS PROPERTY, SATICOY
EHD SITE #C01033



APPENDIX C

MONITORING WELL FIELD DATA

LABORATORY ANALYTICAL RESULTS FOR GROUNDWATER SAMPLES

MONITORING WELL FIELD DATA SHEET

Bauer & Collins Property - 04QM04 VCEHD EHD Number: 1033

Date Measured and Purged: 12/22/04 Date Sampled: 12/22/04

Well Number	MW1	MW2	MW3R	MW4								
Time Measured	–	–	–	–								
Well Casing Elevation (feet 0.01)	159.16	158.96	158.87	159.48								
Depth to Water (feet 0.01)	6.49	6.92	8.42	7.85								
Water Elevation (feet 0.01)	**152.67**	**152.04**	**150.45**	**151.63**								
Depth of Well (feet 0.01)	18.00	20.00	18.00	18.00								
Feet of Water in Well (feet 0.01)	**11.51**	**13.08**	**9.58**	**10.15**								
Well Diameter (inches; default 4")	**2**	**2**	**2**	**2**								
Calculated One BoringVolume (gal.)	2.07	2.35	1.72	1.83								
Three Well Volumes (gal.)	**6**	**7**	**5**	**5**								
Depth to Water after Purge	8.12	9.70	10.30	8.51								
pH (before/after)	7.48/7.03	6.97/6.91	7.27/7.33	7.78/7.01								
Electric Conductivity (E.C.; mmhos/cm@ 25C) (before/after)	1.11/4.09	3.75/4.37	4.39/2.77	1.03/3.42								
Temperature (°C) (before/after)	15.9/20.3	18.2/21.1	21.8/21.0	16.3/17.9								
Turbidity (NTU; before/after)	83/654	635/477	655/259	287/999								
Free-Floating Product (ffp), Thickness (0.00 ft), Sheen, Odor, etc.	NONE	NONE	NONE	NONE								
Approximate Volume Purged (gal.)	6.0	7.0	6.0	6.0								
Sampled and Analyzed? (yes/no)	YES	YES	YES	YES								
Time of Sampling (same as COC)	11:21	12:02	12:09	11:38								

Total Produced Water (gal.): **25.0** Duplicate Sample from: MW3R

NOTES: *(include wellhead condition, additional well, data collection information)*

Samples received and analyzed by: **Columbia Analytical Services** nc = not calculated

4" well = 0.65 gal./ft 2" well = 0.17 gal./ft

Dispose of water by: **03/22/05**

6925 Canoga Avenue Canoga Park, California 91303 (818) 587-5550 ph (818) 587-5555 fax

Columbia Analytical Services INC.
An Employee - Owned Company

January 12, 2005

Robert Orlando
PW Environmental
230 Dove Court
Santa Paula, CA 93060

RE: Bauer MFG/4QM04

Dear Bob:

Enclosed are the results of the samples submitted to our laboratory on December 23, 2004. For your reference, these analyses have been assigned our service request number L0402589.

All analyses were performed in accordance with our laboratory's quality assurance program. Results are intended to be considered in their entirety and apply only to the samples analyzed. Columbia Analytical Services is not responsible for use of less than the complete report. Your report contains 29 pages.

Columbia Analytical Services is certified for environmental analyses by the California Department of Health Services (certificate number: 1296A); NELAP (certificate number: 02115CA); Los Angeles County Laboratory ID (No. 10151); and Arizona Department of Health Services (License number: AZ0136 and AZ0544).

If you have any questions, please call me at (818) 587-5550, extension 310.

Respectfully submitted,

Columbia Analytical Services, Inc.

Stuart Sigman
Project Chemist

SS/EAB

Columbia Analytical Services, Inc.

Acronyms

8015M	California DHS LUFT Method
ASTM	American Society for Testing and Materials
BOD	Biochemical Oxygen Demand
BTEX	Benzene/Toluene/Ethylbenzene/Xylenes
CAM	California Assessment Metals
CAS Number	Chemical Abstract Service Registry Number
CFC	Chlorofluorocarbon
COD	Chemical Oxygen Demand
CRDL	Contract Required Detection Limit
D	Detected; result must be greater than zero.
DL	Detected; result must be greater than the detection limit.
DLCS	Duplicate Laboratory Control Sample
DMS	Duplicate Matrix Spike
DOH or DHS	Department of Health Services
ELAP	Environmental Laboratory Accreditation Program
EPA	U.S. Environmental Protection Agency
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
IC	Ion Chromatography
ICB	Initial Calibration Blank sample
ICP	Inductively Coupled Plasma atomic emission spectrometry
ICV	Initial Calibration Verification sample
LCS	Laboratory Control Sample
LUFT	Leaking Underground Fuel Tank
M	Modified
MBAS	Methylene Blue Active Substances
MDL	Method Detection Limit
MRL	Method Reporting Limit
MS	Matrix Spike
MTBE	Methyl-*tert*-Butyl Ether
NA	Not Applicable
NC	Not Calculated
ND	None Detected at or above the Method Reporting/Detection Limit (MRL/MDL)
NTU	Nephelometric Turbidity Units
ppb	Parts Per Billion
ppm	Parts Per Million
PQL	Practical Quantitation Limit
QA/QC	Quality Assurance/Quality Control
RCRA	Resource Conservation and Recovery Act
RPD	Relative Percent Difference
SIM	Selected Ion Monitoring
SM	*Standard Methods for the Examination of Water and Wastewater* 18th Ed., 1992.
STLC	Solubility Threshold Limit Concentration
SW	*Test Methods for Evaluating Solid Waste, Physical/Chemical Methods* SW-846, Third Edition, 1986 and as amended by Updates I, II, IIA, and IIB.
TCLP	Toxicity Characteristics Leaching Procedure
TDS	Total Dissolved Solids
TPH	Total Petroleum Hydrocarbons
TRPH	Total Recoverable Petroleum Hydrocarbons
TSS	Total Suspended Solids
TTLC	Total Threshold Limit Concentration
VOA	Volatile Organic Analyte(s)

Qualifiers

U	Undetected at or above MDL/MRL (PQL).
J	Estimated concentration. Analyte detected above MDL but below MRL (PQL).
B	Hit above MRL (PQL) also found in Method Blank.
E	Analyte concentration above high point of ICAL.
D	Result from dilution.
X	See case narrative.

COLUMBIA ANALYTICAL SERVICES, INC.

Client:	PW Environmental	**Service Request No.:**	L0402589
Project:	Bauer MFG/4QM04	**Date Received:**	12/23/04
Sample Matrix:	Water		

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of Columbia Analytical Services, Inc. (CAS). This report contains analytical results for samples designated for Tier II data deliverables. When appropriate to the method, method blank results have been reported with each analytical test. Surrogate recoveries have been reported for all applicable organic analyses. Additional quality control analyses reported herein include: Matrix/Duplicate Matrix Spike (MS/DMS), and Laboratory Control Sample (LCS).

Sample Receipt

Water samples were received for analysis at Columbia Analytical Services on 12/23/04. No discrepancies were noted upon initial sample inspection. The samples were received in good condition and consistent with the accompanying chain of custody form. The samples were stored at 4°C upon receipt at the laboratory.

Volatile Organic Compounds by EPA Method 8260B

No anomalies were encountered.

Gasoline Range Organics by EPA Method 8015B

Sample MW3 required dilution due to the presence of elevated levels of target analyte. The reporting limits are adjusted to reflect the dilution.

Diesel Range Organics by EPA Method 8015M

No anomalies were encountered.

Approved by SS **Date** 1/12/05

COLUMBIA ANALYTICAL SERVICES, INC.

Client: PW Environmental
Project: Bauer MFG/4QM04

Service Request: L0402589

Cover Page - Organic Analysis Data Package
Volatile Organic Compounds

Sample Name	Lab Code	Date Collected	Date Received
MW1	L0402589-001	12/22/2004	12/23/2004
MW2	L0402589-002	12/22/2004	12/23/2004
MW3	L0402589-003	12/22/2004	12/23/2004
MW4	L0402589-004	12/22/2004	12/23/2004
DUP	L0402589-005	12/22/2004	12/23/2004
QCTB	L0402589-006	12/22/2004	12/23/2004
MW2MS	LWG0404778-1	12/22/2004	12/23/2004
MW2DMS	LWG0404778-2	12/22/2004	12/23/2004

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Stuart Sigman

Name: Stuart Sigman

Date: 1/12/05

Title: Project Chemist

Client: PW Environmental
Project: Bauer MFG/4QM04
Sample Matrix: Water

Service Request: L0402589
Date Collected: 12/22/2004
Date Received: 12/23/2004

Volatile Organic Compounds

Sample Name: MW1
Lab Code: L0402589-001

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Benzene	ND	U	0.50	0.17	1	12/28/04	12/28/04	LWG0404778	
Toluene	**0.62**		0.50	0.22	1	12/28/04	12/28/04	LWG0404778	
Ethylbenzene	ND	U	0.50	0.16	1	12/28/04	12/28/04	LWG0404778	
Total Xylenes	**0.99**	J	1.5	0.54	1	12/28/04	12/28/04	LWG0404778	
Methyl tert-Butyl Ether	ND	U	2.0	0.32	1	12/28/04	12/28/04	LWG0404778	
tert-Butyl Alcohol	ND	U	20	11	1	12/28/04	12/28/04	LWG0404778	
Diisopropyl Ether	ND	U	2.0	0.27	1	12/28/04	12/28/04	LWG0404778	
tert-Butyl Ethyl Ether	ND	U	2.0	0.29	1	12/28/04	12/28/04	LWG0404778	
tert-Amyl Methyl Ether	ND	U	2.0	0.27	1	12/28/04	12/28/04	LWG0404778	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	104	75-120	12/28/04	Acceptable
Toluene-d8	109	65-129	12/28/04	Acceptable
4-Bromofluorobenzene	98	65-119	12/28/04	Acceptable

Comments:

Client: PW Environmental
Project: Bauer MFG/4QM04
Sample Matrix: Water

Service Request: L0402589
Date Collected: 12/22/2004
Date Received: 12/23/2004

Volatile Organic Compounds

Sample Name: MW2
Lab Code: L0402589-002

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Benzene	**1.2**		0.50	0.17	1	12/28/04	12/28/04	LWG0404778	
Toluene	**5.2**		0.50	0.22	1	12/28/04	12/28/04	LWG0404778	
Ethylbenzene	**0.77**		0.50	0.16	1	12/28/04	12/28/04	LWG0404778	
Total Xylenes	**7.0**		1.5	0.54	1	12/28/04	12/28/04	LWG0404778	
Methyl tert-Butyl Ether	ND	U	2.0	0.32	1	12/28/04	12/28/04	LWG0404778	
tert-Butyl Alcohol	ND	U	20	11	1	12/28/04	12/28/04	LWG0404778	
Diisopropyl Ether	ND	U	2.0	0.27	1	12/28/04	12/28/04	LWG0404778	
tert-Butyl Ethyl Ether	ND	U	2.0	0.29	1	12/28/04	12/28/04	LWG0404778	
tert-Amyl Methyl Ether	ND	U	2.0	0.27	1	12/28/04	12/28/04	LWG0404778	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	103	75-120	12/28/04	Acceptable
Toluene-d8	106	65-129	12/28/04	Acceptable
4-Bromofluorobenzene	96	65-119	12/28/04	Acceptable

Comments:

Client:	PW Environmental	**Service Request:**	L0402589
Project:	Bauer MFG/4QM04	**Date Collected:**	12/22/2004
Sample Matrix:	Water	**Date Received:**	12/23/2004

Volatile Organic Compounds

Sample Name:	MW3	**Units:**	ug/L
Lab Code:	L0402589-003	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260B		

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Benzene	**0.25**	J	0.50	0.17	1	12/28/04	12/28/04	LWG0404778	
Toluene	**0.38**	J	0.50	0.22	1	12/28/04	12/28/04	LWG0404778	
Ethylbenzene	**0.26**	J	0.50	0.16	1	12/28/04	12/28/04	LWG0404778	
Total Xylenes	**0.73**	J	1.5	0.54	1	12/28/04	12/28/04	LWG0404778	
Methyl tert-Butyl Ether	ND	U	2.0	0.32	1	12/28/04	12/28/04	LWG0404778	
tert-Butyl Alcohol	**50**		20	11	1	12/28/04	12/28/04	LWG0404778	
Diisopropyl Ether	ND	U	2.0	0.27	1	12/28/04	12/28/04	LWG0404778	
tert-Butyl Ethyl Ether	ND	U	2.0	0.29	1	12/28/04	12/28/04	LWG0404778	
tert-Amyl Methyl Ether	ND	U	2.0	0.27	1	12/28/04	12/28/04	LWG0404778	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	102	75-120	12/28/04	Acceptable
Toluene-d8	112	65-129	12/28/04	Acceptable
4-Bromofluorobenzene	100	65-119	12/28/04	Acceptable

Comments:

Client:	PW Environmental	**Service Request:**	L0402589
Project:	Bauer MFG/4QM04	**Date Collected:**	12/22/2004
Sample Matrix:	Water	**Date Received:**	12/23/2004

Volatile Organic Compounds

Sample Name:	MW4	**Units:**	ug/L
Lab Code:	L0402589-004	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260B		

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Benzene	**8.3**		0.50	0.17	1	12/28/04	12/28/04	LWG0404778	
Toluene	**28**		0.50	0.22	1	12/28/04	12/28/04	LWG0404778	
Ethylbenzene	**3.2**		0.50	0.16	1	12/28/04	12/28/04	LWG0404778	
Total Xylenes	**25**		1.5	0.54	1	12/28/04	12/28/04	LWG0404778	
Methyl tert-Butyl Ether	ND	U	2.0	0.32	1	12/28/04	12/28/04	LWG0404778	
tert-Butyl Alcohol	ND	U	20	11	1	12/28/04	12/28/04	LWG0404778	
Diisopropyl Ether	ND	U	2.0	0.27	1	12/28/04	12/28/04	LWG0404778	
tert-Butyl Ethyl Ether	ND	U	2.0	0.29	1	12/28/04	12/28/04	LWG0404778	
tert-Amyl Methyl Ether	ND	U	2.0	0.27	1	12/28/04	12/28/04	LWG0404778	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	102	75-120	12/28/04	Acceptable
Toluene-d8	107	65-129	12/28/04	Acceptable
4-Bromofluorobenzene	96	65-119	12/28/04	Acceptable

Comments:

Client:	PW Environmental	**Service Request:**	L0402589
Project:	Bauer MFG/4QM04	**Date Collected:**	12/22/2004
Sample Matrix:	Water	**Date Received:**	12/23/2004

Volatile Organic Compounds

Sample Name:	DUP	**Units:**	ug/L
Lab Code:	L0402589-005	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260B		

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Benzene	**0.26**	J	0.50	0.17	1	12/28/04	12/28/04	LWG0404778	
Toluene	**0.53**		0.50	0.22	1	12/28/04	12/28/04	LWG0404778	
Ethylbenzene	**0.31**	J	0.50	0.16	1	12/28/04	12/28/04	LWG0404778	
Total Xylenes	**0.98**	J	1.5	0.54	1	12/28/04	12/28/04	LWG0404778	
Methyl tert-Butyl Ether	ND	U	2.0	0.32	1	12/28/04	12/28/04	LWG0404778	
tert-Butyl Alcohol	**53**		20	11	1	12/28/04	12/28/04	LWG0404778	
Diisopropyl Ether	ND	U	2.0	0.27	1	12/28/04	12/28/04	LWG0404778	
tert-Butyl Ethyl Ether	ND	U	2.0	0.29	1	12/28/04	12/28/04	LWG0404778	
tert-Amyl Methyl Ether	ND	U	2.0	0.27	1	12/28/04	12/28/04	LWG0404778	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	94	75-120	12/28/04	Acceptable
Toluene-d8	104	65-129	12/28/04	Acceptable
4-Bromofluorobenzene	90	65-119	12/28/04	Acceptable

Comments:

Client:	PW Environmental	**Service Request:**	L0402589
Project:	Bauer MFG/4QM04	**Date Collected:**	12/22/2004
Sample Matrix:	Water	**Date Received:**	12/23/2004

Volatile Organic Compounds

Sample Name:	QCTB	**Units:**	ug/L
Lab Code:	L0402589-006	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260B		

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Benzene	ND	U	0.50	0.17	1	12/28/04	12/28/04	LWG0404778	
Toluene	ND	U	0.50	0.22	1	12/28/04	12/28/04	LWG0404778	
Ethylbenzene	ND	U	0.50	0.16	1	12/28/04	12/28/04	LWG0404778	
Total Xylenes	ND	U	1.5	0.54	1	12/28/04	12/28/04	LWG0404778	
Methyl tert-Butyl Ether	ND	U	2.0	0.32	1	12/28/04	12/28/04	LWG0404778	
tert-Butyl Alcohol	ND	U	20	11	1	12/28/04	12/28/04	LWG0404778	
Diisopropyl Ether	ND	U	2.0	0.27	1	12/28/04	12/28/04	LWG0404778	
tert-Butyl Ethyl Ether	ND	U	2.0	0.29	1	12/28/04	12/28/04	LWG0404778	
tert-Amyl Methyl Ether	ND	U	2.0	0.27	1	12/28/04	12/28/04	LWG0404778	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	100	75-120	12/28/04	Acceptable
Toluene-d8	105	65-129	12/28/04	Acceptable
4-Bromofluorobenzene	93	65-119	12/28/04	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	PW Environmental	**Service Request:**	L0402589
Project:	Bauer MFG/4QM04	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA

Volatile Organic Compounds

Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	LWG0404778-4	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260B		

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Benzene	ND	U	0.50	0.17	1	12/28/04	12/28/04	LWG0404778	
Toluene	ND	U	0.50	0.22	1	12/28/04	12/28/04	LWG0404778	
Ethylbenzene	ND	U	0.50	0.16	1	12/28/04	12/28/04	LWG0404778	
Total Xylenes	ND	U	1.5	0.54	1	12/28/04	12/28/04	LWG0404778	
Methyl tert-Butyl Ether	ND	U	2.0	0.32	1	12/28/04	12/28/04	LWG0404778	
tert-Butyl Alcohol	ND	U	20	11	1	12/28/04	12/28/04	LWG0404778	
Diisopropyl Ether	ND	U	2.0	0.27	1	12/28/04	12/28/04	LWG0404778	
tert-Butyl Ethyl Ether	ND	U	2.0	0.29	1	12/28/04	12/28/04	LWG0404778	
tert-Amyl Methyl Ether	ND	U	2.0	0.27	1	12/28/04	12/28/04	LWG0404778	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	101	75-120	12/28/04	Acceptable
Toluene-d8	106	65-129	12/28/04	Acceptable
4-Bromofluorobenzene	98	65-119	12/28/04	Acceptable

Comments:

Client: PW Environmental
Project: Bauer MFG/4QM04
Sample Matrix: Water

Service Request: L0402589

Surrogate Recovery Summary
Volatile Organic Compounds

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: PERCENT
Level: Low

Sample Name	Lab Code	Sur1	Sur2	Sur3
MW1	L0402589-001	104	109	98
MW2	L0402589-002	103	106	96
MW3	L0402589-003	102	112	100
MW4	L0402589-004	102	107	96
DUP	L0402589-005	94	104	90
QCTB	L0402589-006	100	105	93
Method Blank	LWG0404778-4	101	106	98
MW2MS	LWG0404778-1	99	107	96
MW2DMS	LWG0404778-2	94	100	92
Lab Control Sample	LWG0404778-3	103	110	101

Surrogate Recovery Control Limits (%)

Sur1 =	Dibromofluoromethane	75-120
Sur2 =	Toluene-d8	65-129
Sur3 =	4-Bromofluorobenzene	65-119

Results flagged with an asterisk (*) indicate values outside control criteria.
Results flagged with a pound (#) indicate the control criteria is not applicable.

Client:	PW Environmental	**Service Request:**	L0402589
Project:	Bauer MFG/4QM04	**Date Extracted:**	12/28/2004
Sample Matrix:	Water	**Date Analyzed:**	12/28/2004

Matrix Spike/Duplicate Matrix Spike Summary
Volatile Organic Compounds

Sample Name:	MW2	**Units:**	ug/L
Lab Code:	L0402589-002	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260B	**Extraction Lot:**	LWG0404778

Analyte Name	Sample Result	MW2MS LWG0404778-1 Matrix Spike			MW2DMS LWG0404778-2 Duplicate Matrix Spike			%Rec Limits	RPD	RPD Limit
		Result	Expected	%Rec	Result	Expected	%Rec			
Benzene	1.2	12.0	10.0	108	11.3	10.0	101	64-130	6	25
Toluene	5.2	15.2	10.0	100	14.3	10.0	91	72-129	6	25
Ethylbenzene	0.77	10.7	10.0	99	10.2	10.0	95	67-136	4	25
Methyl tert-Butyl Ether	ND	21.2	20.0	106	21.0	20.0	105	53-134	1	25

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client:	PW Environmental	**Service Request:**	L0402589
Project:	Bauer MFG/4QM04	**Date Extracted:**	12/28/2004
Sample Matrix:	Water	**Date Analyzed:**	12/28/2004

Lab Control Spike Summary
Volatile Organic Compounds

Extraction Method:	EPA 5030B	**Units:**	ug/L
Analysis Method:	8260B	**Basis:**	NA
		Level:	Low
		Extraction Lot:	LWG0404778

	Lab Control Sample LWG0404778-3 Lab Control Spike			
Analyte Name	**Result**	**Expected**	**%Rec**	**%Rec Limits**
Benzene	11.0	10.0	110	76-119
Toluene	10.7	10.0	107	79-121
Ethylbenzene	10.2	10.0	102	78-122
Total Xylenes	30.5	30.0	102	78-123
Methyl tert-Butyl Ether	21.6	20.0	108	63-131
tert-Butyl Alcohol	221	200	110	68-153
Diisopropyl Ether	21.3	20.0	107	71-133
tert-Butyl Ethyl Ether	20.8	20.0	104	73-125
tert-Amyl Methyl Ether	21.6	20.0	108	72-126

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: PW Environmental
Project: Bauer MFG/4QM04

Service Request: L0402589

Cover Page - Organic Analysis Data Package
Gasoline Range Organics (GRO)

Sample Name	Lab Code	Date Collected	Date Received
MW1	L0402589-001	12/22/2004	12/23/2004
MW2	L0402589-002	12/22/2004	12/23/2004
MW3	L0402589-003	12/22/2004	12/23/2004
MW4	L0402589-004	12/22/2004	12/23/2004
MW1MS	LWG0404758-1	12/22/2004	12/23/2004
MW1DMS	LWG0404758-2	12/22/2004	12/23/2004

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Stuart Sigman
Name: Stuart Sigman

Date: 1/12/05
Title: Project Chemist

Client:	PW Environmental	**Service Request:**	L0402589
Project:	Bauer MFG/4QM04	**Date Collected:**	12/22/2004
Sample Matrix:	Water	**Date Received:**	12/23/2004

Gasoline Range Organics (GRO)

Sample Name:	MW1	**Units:**	ug/L
Lab Code:	L0402589-001	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8015B		

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline	ND	U	50	35	1	12/27/04	12/27/04	LWG0404758	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Bromofluorobenzene	92	67-117	12/27/04	Acceptable

Comments:

Client:	PW Environmental	**Service Request:**	L0402589
Project:	Bauer MFG/4QM04	**Date Collected:**	12/22/2004
Sample Matrix:	Water	**Date Received:**	12/23/2004

Gasoline Range Organics (GRO)

Sample Name:	MW2	**Units:**	ug/L
Lab Code:	L0402589-002	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8015B		

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline	47	J	50	35	1	12/27/04	12/27/04	LWG0404758	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Bromofluorobenzene	91	67-117	12/27/04	Acceptable

Comments:

Client:	PW Environmental	**Service Request:**	L0402589
Project:	Bauer MFG/4QM04	**Date Collected:**	12/22/2004
Sample Matrix:	Water	**Date Received:**	12/23/2004

Gasoline Range Organics (GRO)

Sample Name:	MW3	**Units:**	ug/L
Lab Code:	L0402589-003	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8015B		

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline	**730**	D	250	180	5	12/27/04	12/27/04	LWG0404758	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Bromofluorobenzene	107	67-117	12/27/04	Acceptable

Comments:

Client:	PW Environmental	**Service Request:**	L0402589
Project:	Bauer MFG/4QM04	**Date Collected:**	12/22/2004
Sample Matrix:	Water	**Date Received:**	12/23/2004

Gasoline Range Organics (GRO)

Sample Name:	MW4	**Units:**	ug/L
Lab Code:	L0402589-004	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8015B		

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline	**110**		50	35	1	12/27/04	12/27/04	LWG0404758	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Bromofluorobenzene	92	67-117	12/27/04	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	PW Environmental	**Service Request:**	L0402589
Project:	Bauer MFG/4QM04	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA

Gasoline Range Organics (GRO)

Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	LWG0404758-4	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8015B		

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline	ND	U	50	35	1	12/27/04	12/27/04	LWG0404758	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Bromofluorobenzene	94	67-117	12/27/04	Acceptable

Comments:

Client: PW Environmental
Project: Bauer MFG/4QM04
Sample Matrix: Water

Service Request: L0402589

Surrogate Recovery Summary
Gasoline Range Organics (GRO)

Extraction Method: EPA 5030B
Analysis Method: 8015B

Units: PERCENT
Level: Low

Sample Name	Lab Code	Sur1
MW1	L0402589-001	92
MW2	L0402589-002	91
MW3	L0402589-003	107
MW4	L0402589-004	92
Method Blank	LWG0404758-4	94
MW1MS	LWG0404758-1	100
MW1DMS	LWG0404758-2	98
Lab Control Sample	LWG0404758-3	100

Surrogate Recovery Control Limits (%)

Sur1 = Bromofluorobenzene	67-117

Results flagged with an asterisk (*) indicate values outside control criteria.
Results flagged with a pound (#) indicate the control criteria is not applicable.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	PW Environmental	**Service Request:**	L0402589
Project:	Bauer MFG/4QM04	**Date Extracted:**	12/27/2004
Sample Matrix:	Water	**Date Analyzed:**	12/27/2004

Matrix Spike/Duplicate Matrix Spike Summary
Gasoline Range Organics (GRO)

Sample Name:	MW1	**Units:**	ug/L
Lab Code:	L0402589-001	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8015B	**Extraction Lot:**	LWG0404758

Analyte Name	Sample Result	MW1MS LWG0404758-1 Matrix Spike			MW1DMS LWG0404758-2 Duplicate Matrix Spike			%Rec Limits	RPD	RPD Limit
		Result	Expected	%Rec	Result	Expected	%Rec			
Gasoline	ND	841	1000	84	845	1000	84	70-115	0	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client:	PW Environmental	**Service Request:**	L0402589
Project:	Bauer MFG/4QM04	**Date Extracted:**	12/27/2004
Sample Matrix:	Water	**Date Analyzed:**	12/27/2004

Lab Control Spike Summary
Gasoline Range Organics (GRO)

Extraction Method:	EPA 5030B	**Units:**	ug/L
Analysis Method:	8015B	**Basis:**	NA
		Level:	Low
		Extraction Lot:	LWG0404758

	Lab Control Sample LWG0404758-3 Lab Control Spike			
Analyte Name	**Result**	**Expected**	**%Rec**	**%Rec Limits**
Gasoline	890	1000	89	78-116

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	PW Environmental	**Service Request:**	L0402589
Project:	Bauer MFG/4QM04	**Date Collected:**	12/22/04
Sample Matrix:	Water	**Date Received:**	12/23/04

Diesel Range Organics (DRO)

Prep Method:	EPA 3510M	Units:	mg/L (ppm)
Analysis Method:	8015M	Basis:	NA
Test Notes:			

Sample Name	Lab Code	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
MW1	L0402589-001	0.50	0.41	1	12/27/04	12/27/04	ND	
MW2	L0402589-002	0.50	0.41	1	12/27/04	12/27/04	ND	
MW3	L0402589-003	0.50	0.41	1	12/27/04	12/27/04	0.47	J
MW4	L0402589-004	0.50	0.41	1	12/27/04	12/27/04	ND	
Method Blank	L041227-MB	0.50	0.41	1	12/27/04	12/27/04	ND	

DRO	Diesel Range Organics quantified using diesel fuel.
J	Estimated concentration. The result is less than the PQL but greater than the MDL.

Approved By: SS Date: 1/12/05

1A/020597p

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	PW Environmental	**Service Request:**	L0402589
Project:	Bauer MFG/4QM04	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Extracted:	NA
		Date Analyzed:	NA

Surrogate Recovery Summary
Diesel Range Organics (DRO)

Prep Method:	EPA 3510M	Units:	PERCENT
Analysis Method:	8015M	Basis:	NA

Sample Name	Lab Code	Test Notes	Percent Recovery p-Terphenyl
MW1	L0402589-001		74
MW2	L0402589-002		73
MW3	L0402589-003		70
MW4	L0402589-004		77
Method Blank	L041227-MB		80
MW1	L0402589-001MS		78
MW1	L0402589-001DMS		77
Lab Control Sample	L041227-LCS		77

CAS Acceptance Limits: 68-131

Approved By: SS Date: 1/12/05

SUR1/061197p

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	PW Environmental	**Service Request:**	L0402589
Project:	Bauer MFG/4QM04	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Extracted:	12/27/04
		Date Analyzed:	12/27/04

Matrix Spike/Duplicate Matrix Spike Summary
Diesel Range Organics (DRO)

Sample Name:	MW1		Units:	mg/L (ppm)
Lab Code:	L0402589-001MS	L0402589-001DMS	Basis:	NA
Test Notes:				

Analyte	Prep Method	Analysis Method	PQL	Spike Level MS	Spike Level DMS	Sample Result	Spike Result MS	Spike Result DMS	Percent Recovery MS	Percent Recovery DMS	CAS Acceptance Limits	Relative Percent Difference
Diesel Range Organics (DRO)	EPA 3510M	8015M	0.50	20.0	20.0	ND	21.1	20.2	106	101	57-131	4

Approved By: SS Date: 1/12/05

DMS/020597p

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	PW Environmental	**Service Request:**	L0402589
Project:	Bauer MFG/4QM04	**Date Collected:**	NA
LCS Matrix:	Water	**Date Received:**	NA
		Date Extracted:	12/27/04
		Date Analyzed:	12/27/04

Laboratory Control Sample Summary
Diesel Range Organics (DRO)

Sample Name:	Lab Control Sample	Units:	mg/L (ppm)
Lab Code:	L041227-LCS	Basis:	NA
Test Notes:			

Analyte	Prep Method	Analysis Method	True Value	Result	Percent Recovery	CAS Percent Recovery Acceptance Limits	Result Notes
Diesel Range Organics (DRO)	EPA 3510M	8015M	20.0	20.2	101	58-127	

Approved By: SS Date: 1/12/05

LCS/020597p

PENVIRONMENTAL L0402589 CHAIN OF CUSTODY RECORD

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Lab: CAS

PROJECT NAME: BAUER MFG - 4QM04
PROJECT ADDRESS: 1140 S. WELLS RD.
SATICOY CA
PROJECT MANAGER: ROBERT ORLANDO
SAMPLER SIGNATURE:
1286-LAB - P.O. # 9272

SAMPLE ID	SAMPLE LOCATION	DEPTH	DATE	TIME	SAMPLE MATRIX	NUMBER OF CONTAINERS	Pres: (Ice)/Dry/(HCl) None	TPH-G 8015M	TPH-D 8015M	TPH-D Low Level 8015M	TPH-O 8015M	TPH-Char. 8015M FC	BTEX, OXYG, ~~EDB, EDC~~ 8260B	FULL VOCs w/Oxygenates 8260B	Lead Total /Dissolved 6010/6020/7421	STLC ____	TCLP ____	Metals: CAM 17 PP13	Ethanol/Methanol 8015B	Ethanol 8260B			TPHG/BTEX/OXYG/EOH 8260B	TPHG/BTEX/MTBE (Carb 410-T03)	Lab Filter	TAT: RUSH 24-HR 48 HR 72HR STD	PID Reading, Odor, Staining, Other TAT, etc.
(1) MW1	Monitor Well #1	N/A	12/22/04	1121	H_2O	7	X	X	X				X													X
(2) MW2	" #2			1202																						
(3) MW3	" #3			1209																						
(4) MW4	" #4			1138																						
(5) DUP	DUPLICATE		—	—		3																				
(6) QCTB	TRIP BLANK			—		2							X													

RELINQUISHED BY: (signature)
RELINQUISHED BY: (signature)
RECEIVED BY: (signature)
RECEIVED BY: (signature)
DATE 12/23/04 TIME 1030
DATE 12/23/04 TIME 1155

Method of shipment, additional comments:
☐ USTCF
☐ EDF-COELT
☐ NONE
☐ Fax preliminary data ASAP

Required MRLs to:
(RWQCB) LUFT S.B. CO PSD-LUFT Lahontan RWQCB Central Coast RWQCB San Bernardino County FD KCEHD Kern County OCHCA Orange County

SAMPLE RECEIPT FORM

Service Request No: L040 2589 Client: PW ENV

Sample(s) delivered by: Client ____ CAS Emp ✓ After Hours ____ DHL____

Golden State Overnight ____ Fed X ____ UPS ____ Other Courier ____

Chain of Custody filled out accurately? Yes ✓ No ____(See Comments)

Appropriate sample volume and containers? Yes ✓ No ____(See Comments)

Sufficient labeling on container(s) ? Yes ✓ No ____(See Comments)

Container(s) supplied by CAS? Yes ✓ No ____(See Comments)

Custody seal(s) intact? N/A ✓ Yes ____ No ____(See Comments)

Trip Blank(s) received Yes ✓ No ____

If Trip Blank was supplied by CAS, record serial # 1119 -TB- 2

Temperature of sample(s)/cooler 4 °C Temp Blank? Y or N (Circle One)

Voa's Marked Preserved? Yes ✓ No ____ Filled Properly? Yes ✓ No ____ (See Comments)

Preserved Bottles Requiring pH check(s)? Yes ____ Appropriate Preservation? Yes____ No____

RUSH Turn around time? Yes ____ Notified _____Date & Time_____

Short Hold-Time Analysis (check all that apply)

ASAP	Res Cl____	D.O____	Flash____	Diss S2-____	Ferrous Fe____
24HR	pH____	Odor____	Cr+6____		
48HR	BOD____	Color____	MBAS____	Nitrate____	
	Nitrite____	O-PO4____	Sett Sol____	Turbidity____	
72HR	Vapors____				

Notified _____ Date & Time_____

Container(s) received and their preservative(s):

-1 → -4 = 7-40ml VOA (HCl)

-5 = 3-40ml VOA (HCl)

-6 = 2-40ml VOA (HCl)

Comments_____

Initials, Date, Time LK 12/23/04 1340 r:\sr_forms\cooler.doc Rev. 2/25/02

APPENDIX D

LIMITATIONS

LIMITATIONS

This report, including all attached exhibits, describes results of all or a portion of PW Environmental's investigation into subsurface conditions at the subject site. The findings and recommendations are based on the application of a variety of scientific and technical disciplines to data developed regarding the subject property. The data was developed by observation, sampling, and gathering of information (both documentary and oral) about the property. Some of this data is subject to change over time. Some of this data is based on information not currently observable or measurable, but recorded by documents or orally reported by individuals. The findings and recommendations are based, in part, on application of sampling techniques. Said techniques inherently involve a risk of overstating or understating the presence or severity of contamination. The findings and recommendations are based also on sampling only for the specific contaminants shown in the laboratory reports. The samples taken were not subjected to testing for every contaminant known to the environmental industry, and every biological and/or chemical condition known to the environmental industry.

PW Environmental is not responsible for the accuracy of data not developed by PW Environmental or its agents or subcontractors. PW Environmental is not responsible for overstating or understating the presence or severity of contamination. PW Environmental is not responsible for failing to test for contaminants or biological/chemical conditions it had no reason to know were of concern at the subject site.

PW Environmental has performed this investigation in a professional manner using that degree of skill and care exercised for similar projects under similar conditions by reputable and competent environmental consultants. No warranty, either expressed or implied, was made. PW Environmental is not responsible for the ramifications caused by the concealment, withholding or failure to disclose of relevant information known to anyone contacted by PW Environmental in connection with its work at the subject site. This report and all field data, notes, laboratory test data on which it is based (hereinafter collectively designated "Information") were prepared by PW Environmental solely for the benefit of PW Environmental's client Mr. John Bauer and Ms. Patti Collins. Mr. John Bauer and Ms. Patti Collins have the legal right to release all or a portion of this Information, in its discretion, to third parties. Said third parties may not have access to all information upon which this report was based, nor access to prior reports, nor to other information developed and not placed in any report (hereinafter collectively designated "Additional Information"). The presence or absence of such Additional Information may materially affect the statement contained in this report. Any use or reliance upon this report of Information by a party other than the Mr. John Bauer and Ms. Patti Collins, therefore, shall be solely at the risk of such third party and without legal recourse against PW Environmental, its employees, officers, or directors, regardless of whether the action in which recovery of damages is sought based upon contract, tort, statute or otherwise.